

Commonwealth of Kentucky
Natural Resources and Environmental Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382

AIR QUALITY PERMIT

Permittee Name: North American Stainless
Mailing Address: 6870 US 42 East, Ghent, Kentucky 41045

**is authorized to operate a steel rolling and finishing mill and
construct/operate a hot rolling mill**

Source Name: North American Stainless - Rolling and Finishing Mill
Mailing Address: Same as above.
Source Location: Same as above.

Permit Type: Federally-Enforceable Title V
Review Type: Title V

Permit Number: V-97-031
Log Number: E899
Application
Complete Date: May 15, 1997
KYEIS ID #: 079-0580-0034
AFS Plant ID #: 21-041-00034
SIC Code: 3316

Region: CINCINNATI
County: Carroll

Issuance Date:
Expiration Date:

John E. Hornback, Director
Division for Air Quality

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SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application which was determined to be administratively and technically complete on May 15, 1997, the Kentucky Division for Air Quality hereby authorizes the operation and, where appropriate the construction and operation, of the equipment described herein in accordance with the terms and conditions of this permit . This draft permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in the Regulation 401 KAR 50:035, Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

This permit contains provisions which require that specific test methods, monitoring or recordkeeping be used as a demonstration of compliance with permit limits. However, these provisions do not shield the source from violations of the applicable requirements being established and documented through other evidence, nor does it relieve the source from its obligation to comply with the underlying emission limits or other applicable requirements being monitored. The preamble to EPA's credible evidence rule specifically states that a permit cannot shield a source from enforcement based on evidence not specified in the permit.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

01 (S-01) - Annealing furnace - Hot AP Line:

Description:

An annealing furnace with a maximum processing rate of 55 tons of steel per hour and a maximum natural gas usage rate of 65 mmBTU/hr.

Construction commenced - March 1992.

APPLICABLE REGULATIONS:

None.

1. Operating Limitations:

Natural gas usage shall not exceed 567 mm scf per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of Significant Deterioration.

Compliance may be demonstrated through monitoring and recordkeeping as specified below.

2. Emission Limitations:

None.

3. Testing Requirements:

None.

4. Specific Monitoring Requirements:

The natural gas usage shall be monitored to ensure compliance with the operating limitations listed above.

5. Specific Record Keeping Requirements:

The natural gas use shall be recorded monthly. Records shall also be maintained of the 12 month rolling average natural gas usage. These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

Any exceedance in the 12 month rolling average natural gas usage over the limit stated in this permit shall be reported to the Division within 30 days of the exceedance. Following an exceedance, the company shall continue to submit the monthly gas usage at this furnace, within 30 days, for a period of at least 12 months.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**02 (S-02) - Shot blaster - Hot AP Line:****Description:**

Two Pangborn shot blasters with a capacity to process 55 tons of steel per hour and using 218 lbs of steel shot per hour, operated with a fabric filter to collect the steel dust.
Construction commenced - October 1991.

APPLICABLE REGULATIONS:

401 KAR 59:010 - New process operations.

1. Operating Limitations:

None.

2. Emission Limitations:

Particulate emissions shall not exceed 12 tons per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.
Visible emissions shall not equal or exceed 20% opacity.

The following formulas will be used in calculating the particulate emissions:

$$\text{Particulate Emission Rate} = \frac{\text{Steel shot usage rate (in lbs/month)} \times \text{Controlled Steel (tons/month)} \times \text{Particulate Emission Factor (lbs/lb of steel shot used)}}{2000 \text{ (lbs/ton)}}$$

The controlled steel particulate emission factor used shall be 0.0125 lbs/lb of steel shot used. This emission factor shall be replaced by the number calculated whenever an emissions test or other modification, approved by the Division, is carried out for this emission point. Records of any such change in the emission factor used shall be maintained at the source.

Opacity shall be determined by Reference Method 9 of Appendix A to 40 CFR 60, filed by reference in 401 KAR 50:015.

3. Testing Requirements:

If the daily observations of the visible emissions from this emission point are found to be in excess of the limits prescribed above for more than 20 days in any six month period, a stack test shall be conducted to determine compliance with the allowable particulate emissions rates, as listed in this permit, within three months of the last exceedance. The owner or operator shall notify the Division of the performance test at least 30 days prior to the proposed test date and shall obtain approval from the Division for the procedures that will be used to determine compliance. Method 5 shall be used to determine the particulate emissions.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. Specific Monitoring Requirements:

Opacity monitoring shall be performed by a certified visible emissions observer at least once per day during shot blasting operations. The particulate emissions and steel shot usage shall be monitored to ensure compliance with the emission limits listed above.

5. Specific Record Keeping Requirements:

Records shall be maintained of the daily opacity measurements. Records shall also be maintained of the last 20 opacity measurements that are in excess of the emission limits specified in this permit

Records of the calculated particulate emission rates, the steel shot usage rate, and the hours of operation shall be maintained at the source. In addition, a log of the visual inspection of the fabric filter shall be maintained at the source indicating the date of each inspection and condition of the filter.

These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

The record of opacity measurements that are in excess of the emission limits specified in this permit shall be reported to the Division semiannually. In addition, the owner or operator shall certify, annually, whether the opacity measurement was conducted continuously or intermittently and if intermittent, the frequency of such measurements. Also, any exceedance in the particulate emissions rate specified in this permit shall be reported to the Division within 30 days of the exceedance.

7. Specific Control Equipment Operating Conditions:

The fabric filter used as the control equipment for this emission point shall be inspected daily to check for possible leaks or damage. A leaking or damaged filter shall be replaced immediately.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**03 (S-03) - Mixed Acid Pickling - Hot AP Line:****Description:**

Acid pickling of steel sheets using nitric and hydrofluoric acids with a maximum processing capacity of 55 tons of steel per hour and using a scrubber for control of nitrogen oxides, nitric acid, and hydrofluoric acid.

Construction commenced - January 1991.

APPLICABLE REGULATIONS:

401 KAR 63:022 - New or modified sources emitting toxic air pollutants (State Origin).

401 KAR 53:010 - Ambient air quality standards (State Origin).

1. Operating Limitations:**State-Origin Operating Limitations:**

Nitric acid usage shall not exceed 3000 lbs/hr - 401 KAR 63:022.

Hydrofluoric acid usage shall not exceed 700 lbs/hr - 401 KAR 53:010.

2. Emission Limitations:

Nitrogen oxide emissions shall not exceed 24 tons per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

The following formulas will be used in calculating the NO_x emissions:

NO_x emissions rate = NO₂ concentration in exit stream (in ppm by weight) x
(tons per day) 7.48E-6 (lbs/cu. ft./ppm) x average gas flow rate (cu. ft./hr) x
hours of operation (hrs/day) x 0.0005 (tons/lb)

Monthly NO_x emissions = Daily NO_x emissions rate (tons/day) x days of operation
rate (Tons/month) per month (hrs/month)

The gas flow rate shall be the average gas flow rate processed through the scrubber. The NO₂ concentration is the average concentration measured in the exit gas stream as per the monitoring requirements listed below.

3. Testing Requirements:

None.

4. Specific Monitoring Requirements:

The concentration of NO₂ in the exit stream of the scrubber, as recorded by the analyzers, shall be monitored three times a day, at 5 minute intervals. The average gas flow rate through the scrubber shall also be monitored simultaneously with the NO₂ measurements. In addition, the nitric and hydrofluoric acid usage rates and the nitrogen oxide emissions rate shall be monitored to ensure continuous compliance with the operating and emissions limitations as listed above.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Record Keeping Requirements:

Records shall be kept at the source of the hourly nitric acid and hydrofluoric acid usage. Records shall be kept of the average gas flow rates in the scrubber and the average NO₂ concentration monitored as specified above. Records of the daily and monthly calculated NO_x emissions rates shall be maintained at the source. Records of the start and end times of operation of the pickling operation and the associated scrubber shall be maintained. These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

Reports of any exceedance of the operating and emissions limitations listed above shall be submitted to the Division within 30 days of the exceedance.

7. Specific Control Equipment Operating Conditions:

The scrubber shall be maintained so as to be able to achieve a control efficiency of 95%. The unit shall be operated at all times that the pickling unit is in operation.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

04 (S-04) - Coil Polishing:

Description:

An Acme coil grinder with a maximum capacity of 15 tons of steel per hour with a mist collector to control particulate emissions.

Construction commenced - November 1991.

APPLICABLE REGULATIONS:

401 KAR 59:010 - New process operations.

1. Operating Limitations:

None.

2. Emission Limitations:

Particulate emissions shall not exceed 18 tons per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

Visible emissions shall not equal or exceed 20% opacity.

The particulate emissions rate shall be calculated as follows:

Particulate Emission Rate = $\frac{\text{Steel processing rate (in tons of steel processed/month)} \times \text{Controlled Particulate Emission Factor (in lbs/ton of steel processed)}}{2000 \text{ (lbs/ton)}}$

The controlled particulate emission factor used shall be 0.2571 lbs/ton steel processed. This emission factor shall be replaced by the number calculated whenever an emissions test or other modification, approved by the Division, is carried out for this emission point. Records of any such change in the emission factor used shall be maintained at the source.

Opacity shall be determined by Reference Method 9 of Appendix A to 40 CFR 60, filed by reference in 401 KAR 50:015.

3. Testing Requirements:

If the daily observations of the visible emissions from this emission point are found to be in excess of the limits prescribed above for more than 20 days in any six month period, a stack test shall be conducted to determine compliance with the allowable hourly particulate emissions rates, as listed in this permit, within three months of the last exceedance. The owner or operator shall notify the Division of the performance test at least 30 days prior to the proposed test date and shall obtain approval from the Division for the procedures that will be used to determine compliance. Method 5 shall be used to determine the particulate emissions.

4. Specific Monitoring Requirements:

Opacity monitoring shall be performed by a certified visible emissions observer at least once per day during polishing operations. The particulate emissions and steel processing rates shall be monitored to ensure compliance with the emission limits listed above.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Record Keeping Requirements:

Records shall be maintained of the daily opacity measurements as required by this permit. Records shall also be maintained of the last 20 opacity measurements that are in excess of the emission limits specified in this permit

Records of the particulate emissions rate, steel processing rate, and hours of operation of this unit shall be maintained at the source. In addition, a log of the control equipment inspection shall be maintained at the source indicating the date of each inspection and the condition of the controls.

These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

The record of opacity measurements that are in excess of the emission limits specified in this permit shall be reported to the Division semiannually. In addition, the owner or operator shall certify, annually, whether the opacity measurement was conducted continuously or intermittently and if intermittent, the frequency of such measurements. Also, any exceedance in the particulate emissions rate specified in this permit shall be reported to the Division within 30 days of the exceedance.

7. Specific Control Equipment Operating Conditions:

The mist collector shall be inspected regularly and maintained so as to be able to achieve a particulate control efficiency of 99%. The filter shall be operated at all times that the polishing unit is in operation.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**05 (S-05) - Z-Mill #1 - Cold Rolling Mill:****Description:**

Sedzimer Cluster Mill with a maximum processing capacity of 25 tons of steel coil per hour using 12.5 gallons of rolling oil and with a deflector filter used to control particulate oil emissions. Construction commenced - October 1991.

APPLICABLE REGULATIONS:

401 KAR 59:010 - New process operations.

1. Operating Limitations:

None.

2. Emission Limitations:

Particulate emissions shall not exceed 18 tons per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

VOC emissions shall not exceed 72 tons per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of Significant Deterioration.

Visible emissions shall not equal or exceed 20% opacity.

The particulate and VOC emission rates shall be calculated as follows:

Particulate Emission Rate = Rolling oil usage rate (in gallons/month) x Controlled
(tons/month) Particulate Emission Factor (in lbs/gallon of rolling oil used)/
2000 (lbs/ton)

VOC Emission Rate = Rolling oil usage rate(in gallons/month) x VOC Emission
(tons/month) Factor(in lbs/gallon of rolling oil used) / 2000 (lbs/ton)

The controlled particulate emission factor used shall be 0.325 lbs/gallon of rolling oil used. The VOC emission factor used shall be 1.3 lbs/gallon of rolling oil used. These emission factors shall be replaced by the numbers calculated whenever an emissions test or other modification, approved by the Division, is carried out for this emission point. Records of any such change in the emission factor used shall be maintained at the source.

Opacity shall be determined by Reference Method 9 of Appendix A to 40 CFR 60, filed by reference in 401 KAR 50:015.

3. Testing Requirements:

If the daily observations of the visible emissions from this emission point are found to be in excess of the limits prescribed above for more than 20 days in any six month period, a stack test shall be conducted to determine compliance with the allowable hourly particulate emissions rates, as listed in this permit, within three months of the last exceedance. The owner or operator shall notify the Division of the performance test at least 30 days prior to the proposed test date and shall obtain approval from the Division for the procedures that will be used to determine compliance. Method 5 shall be used to determine the particulate emissions.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. Specific Monitoring Requirements:

Opacity monitoring shall be performed by a certified visible emissions observer at least once per day during the rolling operation. The particulate emissions, VOC emissions, and rolling oil usage rates shall be monitored to ensure compliance with the emission limits listed above.

5. Specific Record Keeping Requirements:

Records shall be maintained of the daily opacity measurements as required by this permit. Records shall also be maintained of the last 20 opacity measurements that are in excess of the emission limits specified in this permit

Records of the calculated particulate emission rate, rolling oil usage rate, and hours of operation of this unit shall be maintained at the source. In addition, a log of the visual inspection of the fabric filter shall be maintained at the source indicating the date of each inspection and the condition of the filter.

These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

The record of opacity measurements that are in excess of the emission limits specified in this permit shall be reported to the Division semiannually. In addition, the owner or operator shall certify, annually, whether the opacity measurement was conducted continuously or intermittently and if intermittent, the frequency of such measurements. Also, any exceedance in the particulate emissions rate specified in this permit shall be reported to the Division within 30 days of the exceedance.

7. Specific Control Equipment Operating Conditions:

The deflector filter shall be inspected regularly and maintained so as to be able to achieve a 95% particulate control efficiency. The filter shall be operated at all times that the rolling mill is in operation.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

06 (S-06) - Annealing furnace - Cold AP Line:

Description:

An annealing furnace with a maximum processing rate of 50 tons of steel per hour and a maximum natural gas usage rate of 48.76 mmBTU/hr.

Construction commenced - March 1992.

APPLICABLE REGULATIONS:

None.

1. Operating Limitations:

Natural gas usage shall not exceed 427 mm scf per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

Compliance may be demonstrated through monitoring and recordkeeping as specified below.

2. Emission Limitations:

None.

3. Testing Requirements:

None.

4. Specific Monitoring Requirements:

The natural gas usage rate shall be monitored to ensure compliance with the operating limitations listed above.

5. Specific Record Keeping Requirements:

The natural gas use shall be recorded monthly. Records shall also be maintained of the 12 month rolling average natural gas usage. These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

Any exceedance in the 12 month rolling average natural gas usage over the limit stated in this permit shall be reported to the Division within 30 days of the exceedance. Following an exceedance the company shall submit the monthly gas usage at this furnace to the Division, within 30 days of the end of the month, for at least 12 months.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**07 (S-07) - Mixed Acid Pickling - Cold AP Line:****Description:**

Acid pickling of steel sheets using nitric and hydrofluoric acids with a maximum processing capacity of 50 tons of steel per hour and using a scrubber for control of nitrogen oxides, nitric acid, and hydrofluoric acid.

Construction commenced - February 1992.

APPLICABLE REGULATIONS:

401 KAR 63:022 - New or modified sources emitting toxic air pollutants (State Origin).

401 KAR 53:010 - Ambient air quality standards (State Origin).

1. Operating Limitations:**State-Origin Operating Limitations:**

Nitric acid usage shall not exceed 850 lbs/hr - 401 KAR 63:022.

Hydrofluoric acid usage shall not exceed 250 lbs/hr - 401 KAR 53:010.

2. Emission Limitations:

Nitrogen oxide emissions shall not exceed 36 tons per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

The following formulas will be used in calculating the NO_x emissions:

NO_x emissions rate = NO₂ concentration in exit stream (in ppm by weight) x
(tons per day) 7.48E-6 (lbs/cu. ft./ppm) x average gas flow rate (cu. ft./hr) x
hours of operation (hrs/day) x 0.0005 (tons/lb)

Monthly NO_x emissions = Daily NO_x emissions rate (tons/day) x days of operation
rate (Tons/month) per month (hrs/month)

The gas flow rate shall be the average gas flow rate processed through the scrubber. The NO₂ concentration is the average concentration measured in the exit gas stream as per the monitoring requirements listed below.

3. Testing Requirements:

None.

4. Specific Monitoring Requirements:

The concentration of NO₂ in the exit stream of the scrubber, as recorded by the analyzers, shall be monitored three times a day, at 5 minute intervals. The average gas flow rate through the scrubber shall also be monitored simultaneously with the NO₂ measurements. In addition, the nitric and hydrofluoric acid usage rates and the nitrogen oxide emissions rate shall be monitored to ensure continuous compliance with the operating and emissions limitations as listed above.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Record Keeping Requirements:

Records shall be kept at the source of the hourly nitric acid and hydrofluoric acid usage. Records shall be kept of the average gas flow rates in the scrubber and the average NO₂ concentration monitored as specified above. Records of the daily and monthly calculated NO_x emissions rates shall be maintained at the source. Records of the start and end times of operation of the pickling operation and the associated scrubber shall be maintained. These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

Reports of any exceedance of the operation and emissions limits listed above shall be submitted to the Division within 30 days of the exceedance.

7. Specific Control Equipment Operating Conditions:

The scrubber shall be maintained so as to be able to achieve a control efficiency of 95%. The unit shall be operated at all times that the pickling unit is in operation.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

08 (S1) - Lime unloading:

Description:

Pneumatic unloading of lime storage bin with a maximum capacity of 500 lbs of lime per hour and a filter used to control particulate emissions.

Construction commenced - March 1992.

APPLICABLE REGULATIONS:

401 KAR 59:010 - New process operations.

- 1. Operating Limitations:** None.

- ## 2. Emission Limitations:

Particulate emissions shall not exceed 2 tons per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

Visible emissions shall not equal or exceed 20% opacity.

The particulate emissions rate shall be calculated as follows:

$$\text{Average Particulate Emissions Rate (tons/month)} = \text{Lime processing rate (in tons/month)} \times \text{Controlled Particulate Emission Factor (in lbs/ton lime processed)} / 2000 \text{ (lbs/ton)}$$

The controlled particulate emission factor used shall be 1.56 lbs/ton of lime processed. This emission factor shall be replaced by the number calculated whenever an emissions test or other modification, approved by the Division, is carried out for this emission point. Records of any such change in the emission factor used shall be maintained at the source.

Opacity shall be determined by Reference Method 9 of Appendix A to 40 CFR 60, filed by reference in 401 KAR 50:015.

- ### 3. Testing Requirements:

If the daily observations of the visible emissions from this emission point are found to be in excess of the limits prescribed above for more than 20 days in any six month period, a stack test shall be conducted to determine compliance with the allowable hourly particulate emissions rates, as listed in this permit, within three months of the last exceedance. The owner or operator shall notify the Division of the performance test at least 30 days prior to the proposed test date and shall obtain approval from the Division for the procedures that will be used to determine compliance. Method 5 shall be used to determine the particulate emissions.

- #### 4. Specific Monitoring Requirements:

Opacity monitoring shall be performed by a certified visible emissions observer at least once per day during unloading operations. The particulate emissions rate, hours of operation and lime processing rate shall be monitored to ensure compliance with the emission limits listed above.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Record Keeping Requirements:

Records shall be maintained of the daily opacity measurements as required by this permit. Separate records shall also be maintained of the last 20 opacity measurements that are in excess of the emission limits specified in this permit

Records shall also be maintained of the calculated particulate emission rates, monthly lime processing, and the monthly hours of operation. In addition, a log of the filter inspection shall be maintained at the source indicating the date of each inspection and condition of the control.

These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

The record of opacity measurements that are in excess of the emission limits specified in this permit shall be reported to the Division semiannually. In addition, the owner or operator shall certify, annually, whether the opacity measurement was conducted continuously or intermittently and if intermittent, the frequency of such measurements. Exceedances in the particulate emissions rate specified in this permit shall be reported to the Division within 30 days of the exceedance.

7. Specific Control Equipment Operating Conditions:

The filter shall be inspected regularly and maintained so as to be able to achieve the designed particulate control efficiency of 99%. The filter shall be operated at all times that the pneumatic unloading is in operation.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**09 (S-09) - Boiler #1:****Description:**

Cleaver Brooks boiler with a natural gas fuel usage capacity of 36 mmBTU/hr.
Construction commenced - February, 1992.

APPLICABLE REGULATIONS:

401 KAR 59:015 - New indirect heat exchangers.

1. Operating Limitations: None.**2. Emission Limitations:**

Particulate emissions shall not exceed 1 ton per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

Sulfur dioxide emissions shall not exceed 1 ton per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

Visible emissions shall not equal or exceed 20% opacity except for emissions during building a new fire for the period required to bring the boiler up to operating conditions, provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations, and that a maximum of 40% opacity shall be permissible, for not more than 6 consecutive minutes in any 60 consecutive minutes, during cleaning the fire box or blowing soot.

The particulate and sulfur dioxide emission rates shall be calculated as follows:

Particulate Emission Rate = Natural gas usage rate (in million cubic feet/month)
(tons/month) x 5 (in lbs particulates/million cubic feet) / 2000 (lbs/ton)

Sulfur Dioxide Emission Rate = Natural gas usage rate (in million cubic feet/month) x 0.6
(tons/month) (in lbs sulfur dioxide/million cubic feet) / 2000 (lbs/ton)

The particulate emission factor used shall be 5 lbs/million cubic feet of natural gas used and the sulfur dioxide emission factor used shall be 0.6 lbs/million cubic feet of natural gas used. These emission factors shall be replaced by the numbers calculated whenever an emissions test or other modification, approved by the Division, is carried out for this emission point. Records of any such change in the emission factor used shall be maintained at the source.

Opacity shall be determined by Reference Method 9 of Appendix A to 40 CFR 60, filed by reference in 401 KAR 50:015.

3. Testing Requirements:

If the visible emissions from this emission point are found to be in excess of the limits prescribed above for more than 20 days in any six month period, a stack test shall be conducted within three months to determine compliance with the allowable hourly particulate emissions rates, as listed in this permit. The owner or operator shall notify the Division of the performance test at least 30 days prior to the proposed test date and shall obtain approval from the Division for the procedures that will be used to determine compliance. Method 5 shall be used to determine the particulate emissions.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. Specific Monitoring Requirements:

Opacity monitoring shall be performed by a certified visible emissions observer at least once per year during operation of the boiler. The particulate emissions, sulfur dioxide emissions, and natural gas usage rates shall be monitored to ensure compliance with the emission limitations listed above.

5. Specific Record Keeping Requirements:

Records shall be maintained of the daily opacity measurements as required by this permit. Records shall also be maintained of the last 20 opacity measurements that are in excess of the emission limits specified in this permit

Records shall be maintained of the calculated particulate and sulfur dioxide emission rates, and the monthly natural gas usage rate.

These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

The record of opacity measurements that are in excess of the emission limits specified in this permit shall be reported to the Division semiannually. In addition, the owner or operator shall certify, annually, whether the opacity measurement was conducted continuously or intermittently and if intermittent, the frequency of such measurements.

The owner or operator shall report any exceedance of the particulate or sulfur dioxide emissions rate limits within 30 days of the exceedance.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**10 (S-10) -Boiler #2:****Description:**

Cleaver Brooks boiler with a natural gas fuel usage capacity of 36 mmBTU/hr.
Construction commenced - February, 1992.

APPLICABLE REGULATIONS:

401 KAR 59:015 - New indirect heat exchangers.

1. Operating Limitations:

None.

2. Emission Limitations:

Particulate emissions shall not exceed 1 ton per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

Sulfur dioxide emissions shall not exceed 1 ton per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

Visible emissions shall not equal or exceed 20% opacity except for emissions during building a new fire for the period required to bring the boiler up to operating conditions, provided the method used is that recommended by the manufacturer and the time does not exceed the manufacturer's recommendations, and that a maximum of 40% opacity shall be permissible, for not more than 6 consecutive minutes in any 60 consecutive minutes, during cleaning the fire box or blowing soot.

The particulate and sulfur dioxide emission rates shall be calculated as follows:

Particulate Emission Rate = Natural gas usage rate (in million cubic feet/month)
(tons/month) x Particulate Emission Factor (in lbs particulates/million cubic feet) / 2000 (lbs/ton)

Sulfur Dioxide Emission Rate = Natural gas usage rate (in million cubic feet/month) x
(tons/month) Sulfur Dioxide Emission Factor (in lbs sulfur dioxide/million cubic feet) / 2000 (lbs/ton)

The particulate emission factor used shall be 5 lbs/million cubic feet of natural gas used and the sulfur dioxide emission factor used shall be 0.6 lbs/million cubic feet of natural gas used. These emission factors shall be replaced by the numbers calculated whenever an emissions test or other modification, approved by the Division, is carried out for this emission point. Records of any such change in the emission factor used shall be maintained at the source.

Opacity shall be determined by Reference Method 9 of Appendix A to 40 CFR 60, filed by reference in 401 KAR 50:015.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements:

If the visible emissions from this emission point are found to be in excess of the limits prescribed above for more than 20 days in any six month period, a stack test shall be conducted within three months to determine compliance with the allowable hourly particulate emissions rates, as listed in this permit. The owner or operator shall notify the Division of the performance test at least 30 days prior to the proposed test date and shall obtain approval from the Division for the procedures that will be used to determine compliance. Method 5 shall be used to determine the particulate emissions.

4. Specific Monitoring Requirements:

Opacity monitoring shall be performed by a certified visible emissions observer at least once per year during operation of the boiler. The particulate emissions, sulfur dioxide emissions, and natural gas usage rates shall be monitored to ensure compliance with the emission limitations listed above.

5. Specific Record Keeping Requirements:

Records shall be maintained of the daily opacity measurements as required by this permit. Records shall also be maintained of the last 20 opacity measurements that are in excess of the emission limits specified in this permit.

Records shall be maintained of the calculated particulate and sulfur dioxide emission rates, and the monthly natural gas usage rate.

These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

The record of opacity measurements that are in excess of the emission limits specified in this permit shall be reported to the Division semiannually. In addition, the owner or operator shall certify, annually, whether the opacity measurement was conducted continuously or intermittently and if intermittent, the frequency of such measurements.

The owner or operator shall report any exceedance of the particulate or sulfur dioxide emissions rate limits within 30 days of the exceedance.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**11 (S-21) - Z-Mill #2 - Cold Rolling Mill:****Description:**

Sedzimer Cluster Mill with a maximum processing capacity of 25 tons of steel coil per hour using 12.5 gallons of rolling oil per hour and with a deflector filter to control particulate oil emissions. Construction commenced - January, 1995.

APPLICABLE REGULATIONS:

401 KAR 59:010 - New process operations.

1. Operating Limitations:

None.

2. Emission Limitations:

Particulate emissions shall not exceed 18 tons per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

VOC emissions shall not exceed 72 tons per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

Visible emissions shall not equal or exceed 20% opacity.

The particulate and VOC emission rates shall be calculated as follows:

Particulate Emission Rate = Rolling oil usage rate (in gallons/month) x Controlled
(tons/month) Particulate Emission Factor (in lbs/gallon of rolling oil used)/
2000 (lbs/ton)

VOC Emission Rate = Rolling oil usage rate(in gallons/month) x VOC Emission
(tons/month) Factor (in lbs/gallon of rolling oil used) / 2000 (lbs/ton)

The controlled particulate emission factor used shall be 0.325 lbs/gallon of rolling oil used. The VOC emission factor used shall be 1.3 lbs/gallon of rolling oil used. This emission factor shall be replaced by the number calculated whenever an emissions test or other modification, approved by the Division, is carried out for this emission point.

Records of any such change in the emission factor used shall be maintained at the source.

Opacity shall be determined by Reference Method 9 of Appendix A to 40 CFR 60, filed by reference in 401 KAR 50:015.

3. Testing Requirements:

If the daily observations of the visible emissions from this emission point are found to be in excess of the limits prescribed above for more than 20 days in any six month period, a stack test shall be conducted to determine compliance with the allowable hourly particulate emissions rates, as listed in this permit, within three months of the last exceedance. The owner or operator shall notify the Division of the performance test at least 30 days prior to the proposed test date and shall obtain approval from the Division for the procedures that will be used to determine compliance. Method 5 shall be used to determine the particulate emissions.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. Specific Monitoring Requirements:

Opacity monitoring shall be performed by a certified visible emissions observer at least once per day during the rolling operation. The particulate emissions, VOC emissions, and rolling oil usage rates shall be monitored to ensure compliance with the emission limits listed above.

5. Specific Record Keeping Requirements:

Records shall be maintained of the daily opacity measurements as required by this permit. Records shall also be maintained of the last 20 opacity measurements that are in excess of the emission limits specified in this permit

Records of the calculated particulate emission rate, rolling oil usage rate, and hours of operation of this unit shall be maintained at the source. In addition, a log of the visual inspection of the fabric filter shall be maintained at the source indicating the date of each inspection and the condition of the filter.

These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

The record of opacity measurements that are in excess of the emission limits specified in this permit shall be reported to the Division semiannually. In addition, the owner or operator shall certify, annually, whether the opacity measurement was conducted continuously or intermittently and if intermittent, the frequency of such measurements. Also, any exceedance in the particulate emissions rate specified in this permit shall be reported to the Division within 30 days of the exceedance.

7. Specific Control Equipment Operating Conditions:

The deflector filter shall be inspected regularly and maintained so as to be able to achieve the designed particulate control efficiency of 95%. The filter shall be operated at all times that the rolling mill is in operation.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

22 (S-25) - Slab Grinder:

Description:

A slab grinder with a maximum capacity of 200 tons of steel per hour with a baghouse to control particulate emissions.

Construction commenced - May 1996.

APPLICABLE REGULATIONS:

401 KAR 59:010 - New process operations.

1. Operating Limitations:

None.

2. Emission Limitations:

Particulate emissions shall not exceed 7 tons per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

Visible emissions shall not equal or exceed 20% opacity.

The particulate emission rates shall be calculated as follows:

Particulate Emission Rate = $\frac{\text{Steel processing rate (in tons of steel processed/month)} \times \text{Controlled Particulate Emission Factor (in lbs/ton of steel processed)}}{2000 \text{ (lbs/ton)}}$

The controlled particulate emission factor used shall be 0.00695 lbs/ton steel processed. This emission factor shall be replaced by the number calculated whenever an emissions test or other modification, approved by the Division, is carried out for this emission point. Records of any such change in the emission factor used shall be maintained at the source.

Opacity shall be determined by Reference Method 9 of Appendix A to 40 CFR 60, filed by reference in 401 KAR 50:015.

3. Testing Requirements:

If the daily observations of the visible emissions from this emission point are found to be in excess of the limits prescribed above for more than 20 days in any six month period, a stack test shall be conducted to determine compliance with the allowable hourly particulate emissions rates, as listed in this permit, within three months of the last exceedance. The owner or operator shall notify the Division of the performance test at least 30 days prior to the proposed test date and shall obtain approval from the Division for the procedures that will be used to determine compliance. Method 5 shall be used to determine the particulate emissions.

4. Specific Monitoring Requirements:

Opacity monitoring shall be performed by a certified visible emissions observer at least once per day during grinding operations. The particulate emissions and steel processing rates shall be monitored to ensure compliance with the emission limitations listed above.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Record Keeping Requirements:

Records shall be maintained of the daily opacity measurements as required by this permit. Records shall also be maintained of the last 20 opacity measurements that are in excess of the emission limits specified in this permit

Records shall be maintained of the calculated particulate emission rates, the monthly steel processing rate, and the monthly hours of operation. In addition, a log of the baghouse inspection shall be maintained at the source indicating the date of each inspection and the condition of the control.

These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

The record of opacity measurements that are in excess of the emission limits specified in this permit shall be reported to the Division semiannually. In addition, the owner or operator shall certify, annually, whether the opacity measurement was conducted continuously or intermittently and if intermittent, the frequency of such measurements. Also, any exceedance in the particulate emissions rate specified in this permit shall be reported to the Division within 30 days of the exceedance.

7. Specific Control Equipment Operating Conditions:

The baghouse shall be inspected regularly and maintained so as to be able to achieve the designed particulate control efficiency of 98%. The baghouse shall be operated at all times that the grinder is in operation.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

23 (S-22) - Reheat furnace:

Description:

A Stein Hurty reheat furnace with a maximum processing rate of 200 tons of steel per hour and a maximum natural gas usage rate of 169 mmBTU/hr.

Construction commenced - May 1996.

APPLICABLE REGULATIONS:

None.

1. Operating Limitations:

Natural gas usage shall not exceed 1480 mm scf per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

Compliance may be demonstrated through monitoring and recordkeeping as specified below.

2. Emission Limitations:

None.

3. Testing Requirements:

None.

4. Specific Monitoring Requirements:

The natural gas usage shall be monitored to ensure compliance with the operating limitations listed above.

5. Specific Record Keeping Requirements:

The usage of natural gas in this furnace shall be recorded monthly. Records shall also be maintained of the 12 month rolling average natural gas usage. These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

Any exceedance in the 12 month rolling average natural gas usage over the limit stated in this permit shall be reported to the Division within 30 days of the exceedance. Following an exceedance, the company shall submit, within 30 days of the end of the month, the rolling 12 month average of the gas usage at this furnace, for a period of at least 12 months.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

24 (S-24) - Roughing Mill:

Description:

A Hitachi roughing mill with a maximum capacity of 200 tons of steel per hour with a centrifugal dust collection system to control particulate emissions.

Construction commenced - May 1996.

APPLICABLE REGULATIONS:

401 KAR 59:010 - New process operations.

1. Operating Limitations:

None.

2. Emission Limitations:

Particulate emissions shall not exceed 78 tons per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

Visible emissions shall not equal or exceed 20% opacity.

The particulate emissions rate shall be calculated as follows:

Particulate Emission Rate = $\frac{\text{Steel processing rate (in tons of steel processed/month)} \times \text{Controlled Particulate Emission Factor (in lbs/ton of steel processed)}}{2000 \text{ (lbs/ton)}}$

The controlled particulate emission factor used shall be 0.0886 lbs/ton steel processed. This emission factor shall be replaced by the number calculated whenever an emissions test or other modification, approved by the Division, is carried out for this emission point. Records of any such change in the emission factor used shall be maintained at the source.

Opacity shall be determined by Reference Method 9 of Appendix A to 40 CFR 60, filed by reference in 401 KAR 50:015.

3. Testing Requirements:

If the daily observations of the visible emissions from this emission point are found to be in excess of the limits prescribed above for more than 20 days in any six month period, a stack test shall be conducted to determine compliance with the allowable hourly particulate emissions rates, as listed in this permit, within three months of the last exceedance. The owner or operator shall notify the Division of the performance test at least 30 days prior to the proposed test date and shall obtain approval from the Division for the procedures that will be used to determine compliance. Method 5 shall be used to determine the particulate emissions.

4. Specific Monitoring Requirements:

Opacity monitoring shall be performed by a certified visible emissions observer at least once per day during roughing operations. The particulate emissions and steel processing rates shall be monitored to ensure compliance with the emission limitations listed above.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Record Keeping Requirements:

Records shall be maintained of the daily opacity measurements as required by this permit. Records shall also be maintained of the last 20 opacity measurements that are in excess of the emission limits specified in this permit

Records shall be maintained of the calculated particulate emission rates, the monthly steel processing rates, and the monthly hours of operation. In addition, a log of the visual inspections of the control equipment shall be maintained at the source indicating the date of each inspection and the status of the equipment parameters.

These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

The record of opacity measurements that are in excess of the emission limits specified in this permit shall be reported to the Division semiannually. In addition, the owner or operator shall certify, annually, whether the opacity measurement was conducted continuously or intermittently and if intermittent, the frequency of such measurements. Also, any exceedance in the particulate emissions rate specified in this permit shall be reported to the Division within 30 days of the exceedance.

7. Specific Control Equipment Operating Conditions:

The centrifugal particulate controls shall be inspected regularly and maintained so as to be able to achieve the designed particulate control efficiency of 91%. The controls shall be operated at all times that the roughing mill is in operation.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**25 (S-22A, S-23b, S26) - Finishing Mill:****Description:**

A Hitachi finishing mill (Steckel) coiler, with two natural gas burners, and with a maximum capacity of 200 tons of steel per hour equipped with a Busch centrifugal dust collection system to control particulate emissions.

Construction commenced - May 1996.

APPLICABLE REGULATIONS:

401 KAR 59:010 - New process operations.

1. Operating Limitations:

None.

2. Emission Limitations:

Particulate emissions shall not exceed 80 tons per 12 month rolling average - Self imposed to preclude 401 KAR 51:017, Prevention of significant deterioration.

Visible emissions shall not equal or exceed 20% opacity.

The particulate emissions rate shall be calculated as follows:

Particulate Emission Rate =
$$\frac{[\text{Steel processing rate (in tons of steel processed/month)} \times \text{Controlled Steel Particulate Emission Factor (in lbs/ton of steel processed)} + \text{Natural gas usage rate (in million cubic feet/month)} \times \text{Natural Gas Particulate Emission Factor (in lbs particulates/million cubic feet)}] \times 2000}{\text{lbs/ton}}$$

The controlled steel particulate emission factor used shall be 0.0886 lbs/ton steel processed and the natural gas particulate emission factor used shall be 5 lbs/million cubic feet. These emission factor shall be replaced by the number calculated whenever an emissions test or other modification, approved by the Division, is carried out for this emission point. Records of any such change in the emission factors used shall be maintained at the source.

Opacity shall be determined by Reference Method 9 of Appendix A to 40 CFR 60, filed by reference in 401 KAR 50:015.

3. Testing Requirements:

If the daily observations of the visible emissions from this emission point are found to be in excess of the limits prescribed above for more than 20 days in any six month period, a stack test shall be conducted to determine compliance with the allowable hourly particulate emissions rates, as listed in this permit, within three months of the last exceedance. The owner or operator shall notify the Division of the performance test at least 30 days prior to the proposed test date and shall obtain approval from the Division for the procedures that will be used to determine compliance. Method 5 shall be used to determine the particulate emissions.

SECTION B - EMISSION POINTS, AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. Specific Monitoring Requirements:

Opacity monitoring shall be performed by a certified visible emissions observer at least once per day during finishing operations. The particulate emissions, steel usage, and natural gas usage rates shall be monitored to ensure compliance with the emissions limits listed above.

5. Specific Record Keeping Requirements:

Records shall be maintained of the daily opacity measurements as required by this permit. Records shall also be maintained of the last 20 opacity measurements that are in excess of the emission limits specified in this permit

Records shall be maintained of the calculated particulate emission rates, the monthly steel processing rates, and the monthly hours of operation. In addition, a log of the visual inspections of the control equipment shall be maintained at the source indicating the date of each inspection and the status of the equipment parameters.

These records shall be maintained at the plant for a period of at least three years.

6. Specific Reporting Requirements:

The record of opacity measurements that are in excess of the emission limits specified in this permit shall be reported to the Division semiannually. In addition, the owner or operator shall certify, annually, whether the opacity measurement was conducted continuously or intermittently and if intermittent, the frequency of such measurements. Also, any exceedance in the particulate emissions rate specified in this permit shall be reported to the Division within 30 days of the exceedance.

7. Specific Control Equipment Operating Conditions:

The centrifugal particulate controls shall be inspected regularly and maintained so as to be able to achieve the designed particulate control efficiency of 91%. The controls shall be operated at all times that the finishing mill is in operation.

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to Regulation 401 KAR 50:035, Section 5(4).

<u>Description</u>	<u>Regulation</u>
1. T-01: 2 Hydrofluoric acid (70%) storage tanks	Generally applicable regulations.
2. T-02: 2 Nitric acid (68%) storage tanks	Generally applicable regulations.
3. T-03: 1 Sodium hydroxide (25%) storage tank	Generally applicable regulations.
4. T-04: 1 Urea storage tank	Generally applicable regulations.
5. T-05: 1 Diesel storage tank	Generally applicable regulations.
6. T-06: Waste water lime Day #1	Generally applicable regulations.
7. T-07: Waste water lime Day #2	Generally applicable regulations.
8. C-01: AP lines cooling tower	Generally applicable regulations.

Regulation 40 CFR 63, Subpart Q, National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers does not apply as chromium-based water treatment chemicals shall not be used.

Records shall be maintained of the chemical compositions (MSDS sheets) for any water treatment chemical used in the cooling towers. Any water treatment chemical that is used in the cooling tower and is later found to have chromium shall be reported to the Division as promptly as possible.

9. C-02: Z-mill #1 cooling tower	Generally applicable regulations.
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Regulation 40 CFR 63, Subpart Q, National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers does not apply as chromium-based water treatment chemicals shall not be used.

Records shall be maintained of the chemical compositions (MSDS sheets) for any water treatment chemical used in the cooling towers. Any water treatment chemical that is used in the cooling tower and is later found to have chromium shall be reported to the Division as promptly as possible.

10. W-01: Scale pit water treatment	Generally applicable regulations.
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SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)

<u>Description</u>	<u>Regulation</u>
11. C-03: Z-mill #2 cooling tower	Generally applicable regulations. Regulation 40 CFR 63, Subpart Q, National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers does not apply as chromium-based water treatment chemicals shall not be used. Records shall be maintained of the chemical compositions (MSDS sheets) for any water treatment chemical used in the cooling towers. Any water treatment chemical that is used in the cooling tower and is later found to have chromium shall be reported to the Division as promptly as possible.
12. V-01 to V-09: Gravity ventilators for fugitive emissions from 3 mig & 1 electric arc welders, and an alkali scrubber.	Generally applicable regulations.

SECTION D - CONTROL EQUIPMENT CONDITIONS

Pursuant to 401 KAR 50:012, Section 1(1) and 401 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the cabinet which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION E - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS

1. When continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
 - a) Date, place as defined in this permit, and time of sampling or measurements.
 - b) Analyses performance dates;
 - c) Company or entity that performed analyses;
 - d) Analytical techniques or methods used;
 - e) Analyses results; and
 - f) Operating conditions during time of sampling or measurement;
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained at the source authorized by this permit for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality.
3. The permittee shall allow the Cabinet or authorized representatives to perform the following:
 - a) Enter upon the premises where a source is located or emissions-related activity is conducted, or where records are kept;
 - b) Have access to and copy, at reasonable times, any records required by the permit:
 - I) During normal office hours, and
 - ii) During periods of emergency when prompt access to records is essential to proper assessment by the Cabinet;
 - c) Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit. Reasonable times shall include, but are not limited to the following:
 - I) During all hours of operation at the source,
 - ii) For all sources operated intermittently, during all hours of operation at the source and the hours between 8:00 a.m. and 4:30 p.m., Monday through Friday, excluding holidays, and
 - iii) During an emergency; and
 - d) Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements. Reasonable times shall include, but are not limited to the following:
 - I) During all hours of operation at the source,
 - ii) For all sources operated intermittently, during all hours of operation at the source and the hours between 8:00 a.m. and 4:30 p.m., Monday through Friday, excluding holidays, and
 - iii) During an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

SECTION E - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

5. Reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be reported to the Division's Florence Regional Office no later than the six-month anniversary date of this permit and every six months thereafter during the life of this permit, unless otherwise stated in this permit. Data from the continuous emission and opacity monitors shall be reported to the Director in accordance with the requirements of Regulation 401 KAR 59:005, General Provisions, Section 3(3). All reports shall be certified by a responsible official pursuant to Section 6(1) of Regulation 401 KAR 50:035, Permits. All deviations from permit requirements shall be clearly identified in the reports.
6. In accordance with Regulation 401 KAR 50:055, Section 1, the owner or operator shall notify the Division for Air Quality's Florence Regional Office by telephone as promptly as possible any deviation from permit requirements, including those due to malfunctions, unplanned shutdowns, ensuing startups, or upset conditions. Pursuant to Regulation 401 KAR 50:035, Section 7(1)(e), the notification shall describe the probable cause of the deviations and corrective actions or preventive measures taken.
7. The permittee shall certify compliance with the terms and conditions contained in this permit, annually on the permit issuance anniversary date to the Division for Air Quality's Florence Regional Office and the U.S. EPA in accordance with the following requirements:
 - a) Identification of each term or condition of the permit that is the basis of the certification;
 - b) The compliance status regarding each term or condition of the permit;
 - c) Whether compliance was continuous or intermittent; and
 - d) The method used for determining the compliance status for the source, currently and over the reporting period, pursuant to 401 KAR 50:035, Section 7(1)(c),(d), and (e).
 - e) Other facts the Division may require to determine the compliance status of the source; and
 - f) The certification shall be postmarked by the thirtieth (30) day following the applicable permit issuance anniversary date.
8. In accordance with Regulation 401 KAR 50:035, Section 23, the permittee shall report all information necessary to determine its subject emissions.

SECTION F - GENERAL CONDITIONS

(a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance is a violation of state regulation 401 KAR 50:035, Permits, Section 7(3)(d) and for federally enforceable permits is also a violation of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act]) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit.
2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition.
3. This permit may be revised, revoked, reopened and reissued, or terminated for cause. The permit will be reopened for cause and revised accordingly under the following circumstances:
 - a) If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to Regulation 401 KAR 50:035, Section 12(2)(c);
 - b) The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.;
 - c) The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish to the Division, in writing, information that the Division may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.
5. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit.
6. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance.

SECTION F - GENERAL CONDITIONS (CONTINUED)

7. Except as identified as state-origin requirements in this permit, all terms and conditions contained herein shall be enforceable by the United States Environmental Protection Agency and citizens of the United States.
8. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6).
9. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance.
10. This permit shall not convey property rights or exclusive privileges.
11. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Natural Resources and Environmental Protection or any other federal, state, or local agency.
12. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry.
13. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders.
14. Permit Shield: Except as provided in State Regulation 401 KAR 50:035, Permits, compliance by the affected facilities listed herein with the conditions of this permit shall be deemed to be compliance with all applicable requirements identified in this permit as of the date of issuance of this permit.

(b) Permit Expiration and Reapplication Requirements

1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division.

SECTION F - GENERAL CONDITIONS (CONTINUED)

c) Permit Revisions

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of Regulation 401 KAR 50:035, Section 15.
2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority thirty (30) days in advance of the transfer.

(d) Acid Rain Program Requirements

If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

(e) Emergency Provisions

1. An emergency shall constitute an affirmative defense to an action brought for noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or other relevant evidence that:
 - i) An emergency occurred and the permittee can identify the cause of the emergency;
 - ii) The permitted facility was at the time being properly operated;
 - iii) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and,
 - iv) The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency. The notice shall meet the requirements of 401 KAR 50:035, Permits, Section 7(1)(e), and include a description of the emergency, steps taken to mitigate emissions, and the corrective actions taken. This requirement does not relieve the source of any other local, state or federal notification requirements.
2. Emergency conditions listed in General Condition (e)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement.
3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof.

SECTION F - GENERAL CONDITIONS (CONTINUED)

(f) Risk Management Provisions

The permittee shall comply with all applicable requirements of 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall:

- a. Submit a Risk Management Plan to U.S.EPA, Region IV with a copy to this Division and comply with the Risk Management Program by June 21, 1999 or a later date specified by the U.S.EPA.
- b. Submit additional relevant information if requested by the Division or the U.S. EPA.

(g) Ozone depleting substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166.
 - e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.